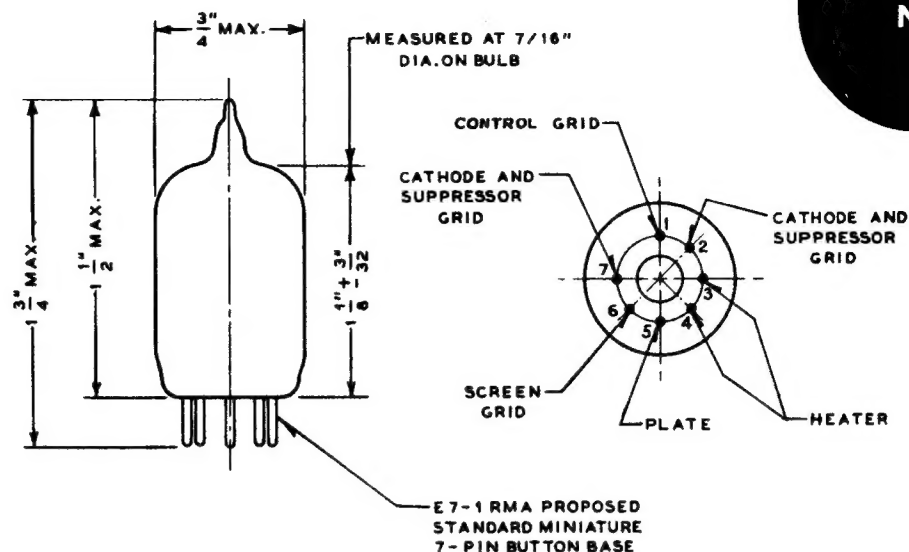


ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 5590* ELECTRON TUBE

5590
MINIATURE
PENTODE



CLASSIFICATION

Miniature Pentode

MOUNTING

Tube may be mounted in any position.

MAXIMUM RATINGS (DESIGN - CENTER VALUES)

| | |
|--------------------------|-----------------|
| Plate Voltage | 180 volts |
| Plate Dissipation | 1.7 watts |
| Screen Voltage | 140 volts |
| Screen Dissipation | 0.5 watts |
| Cathode Current | 18 milliamperes |
| Heater - Cathode Voltage | 90 volts |
| Bulb Temperature | 120°C |

OPERATING CONDITIONS AND CHARACTERISTICS

| | |
|-------------------------|------------------|
| Heater Voltage | 6.3 volts |
| Heater Current | 0.150 amperes |
| Plate Voltage | 90 volts |
| Plate Current | 3.9 milliamperes |
| Screen Voltage | 90 volts |
| Screen Current | 1.4 milliamperes |
| Cathode - Bias Resistor | 820 ohms |
| Amplification Factor | 600 |
| Plate Resistance | 300,000 ohms |
| Transconductance | 2,000 micromhos |
| Cut-off Grid Voltage | -15 volts |

INTERELECTRODE CAPACITANCE (WITH JAN 1A NO. 314 SHIELD CONNECTED TO CATHODE)

| | |
|--|---------|
| Control - Grid to Heater, Cathode, Screen-Grid and Suppressor-Grid | 3.4 pF |
| Plate to Control-Grid | 0.01 pF |
| Plate to Heater, Cathode, Screen-Grid and Suppressor-Grid | 2.9 pF |